

FIG. 1

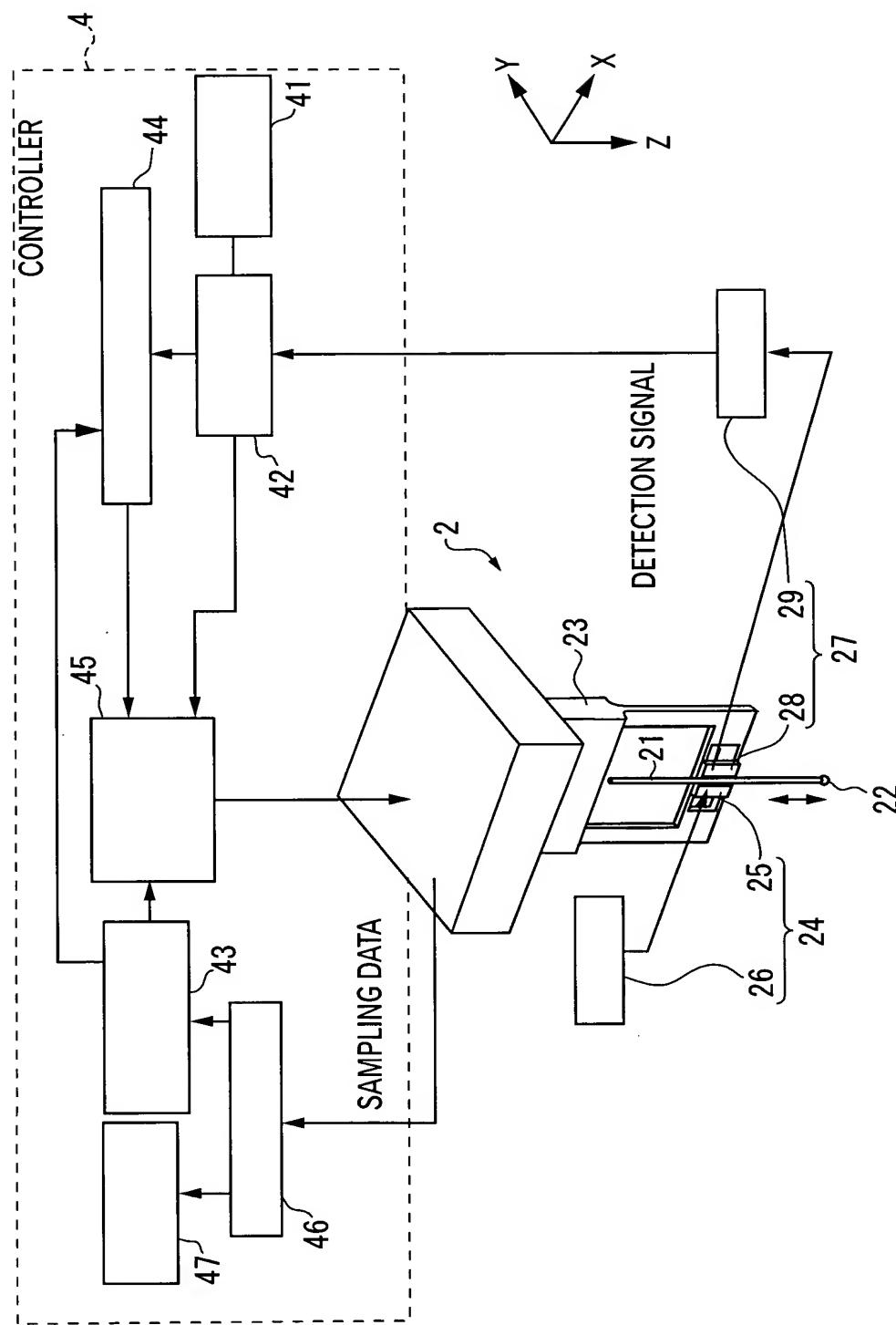


FIG. 2

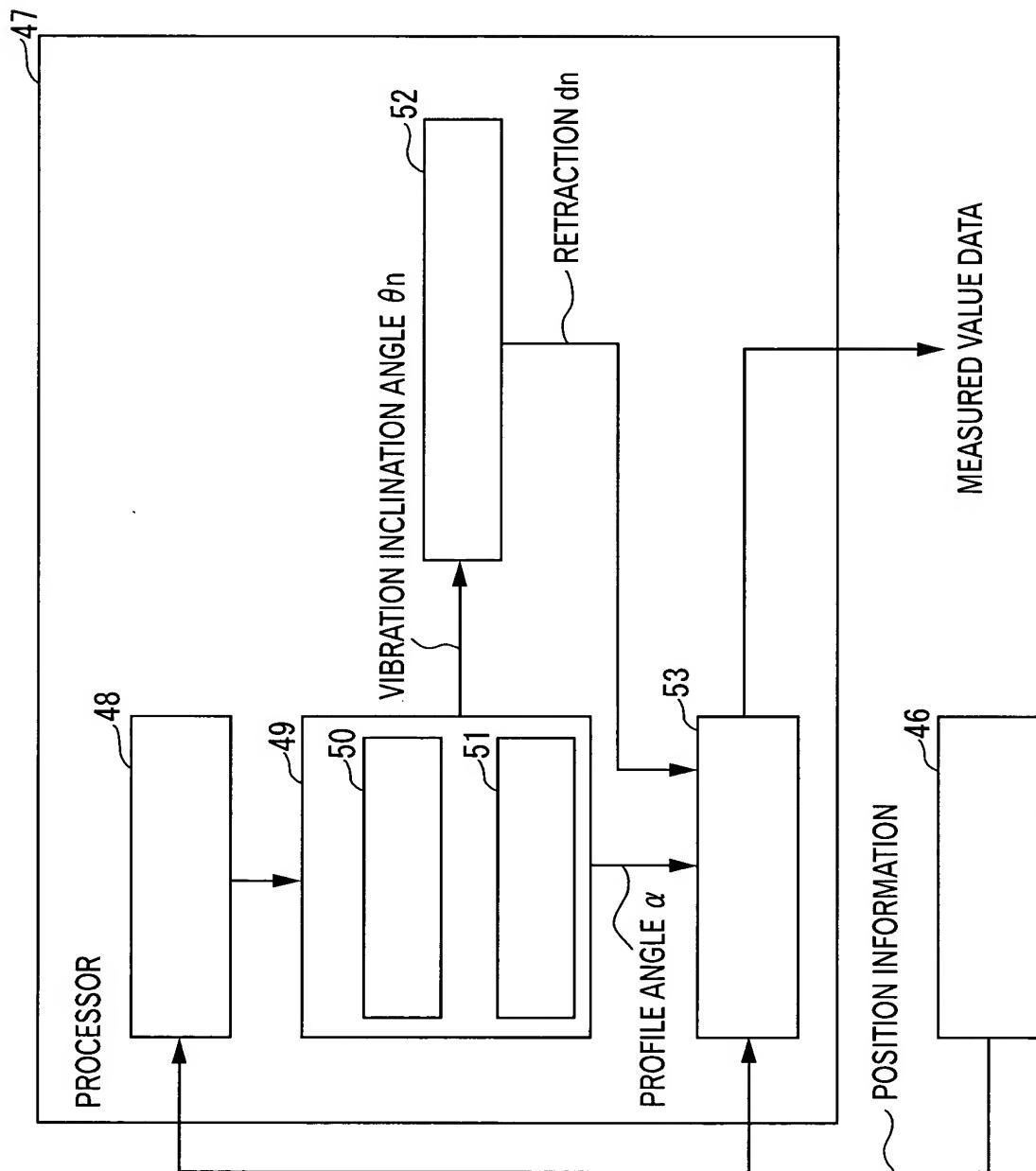


FIG. 3

- - - - → SCANNING VECTOR
 → PROFILE VECTOR

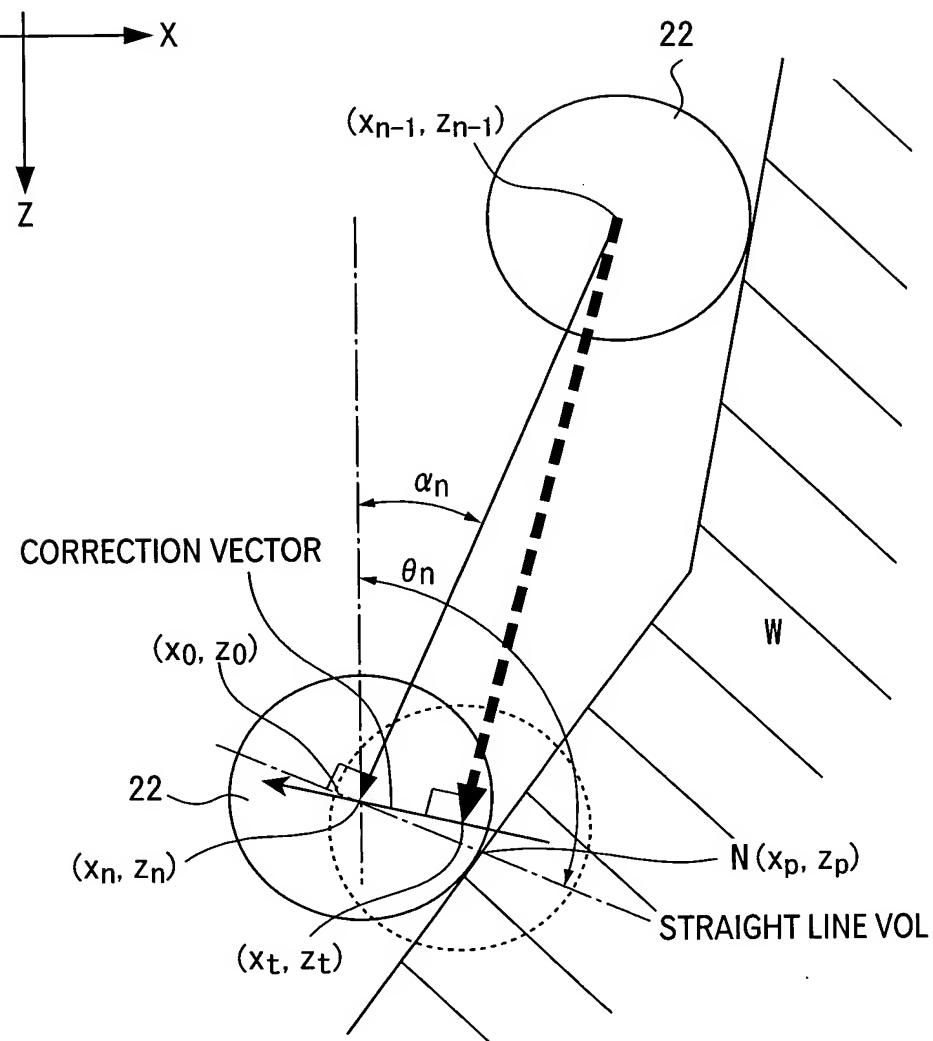


FIG. 4 A

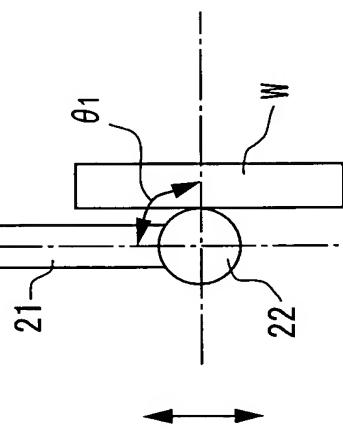


FIG. 4 B

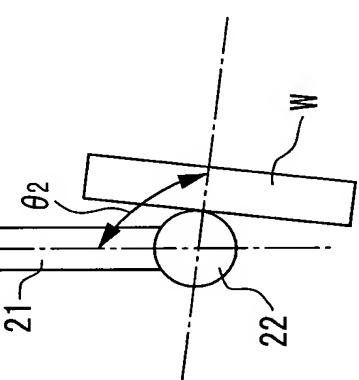


FIG. 4 C

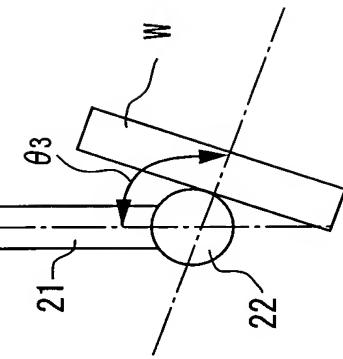
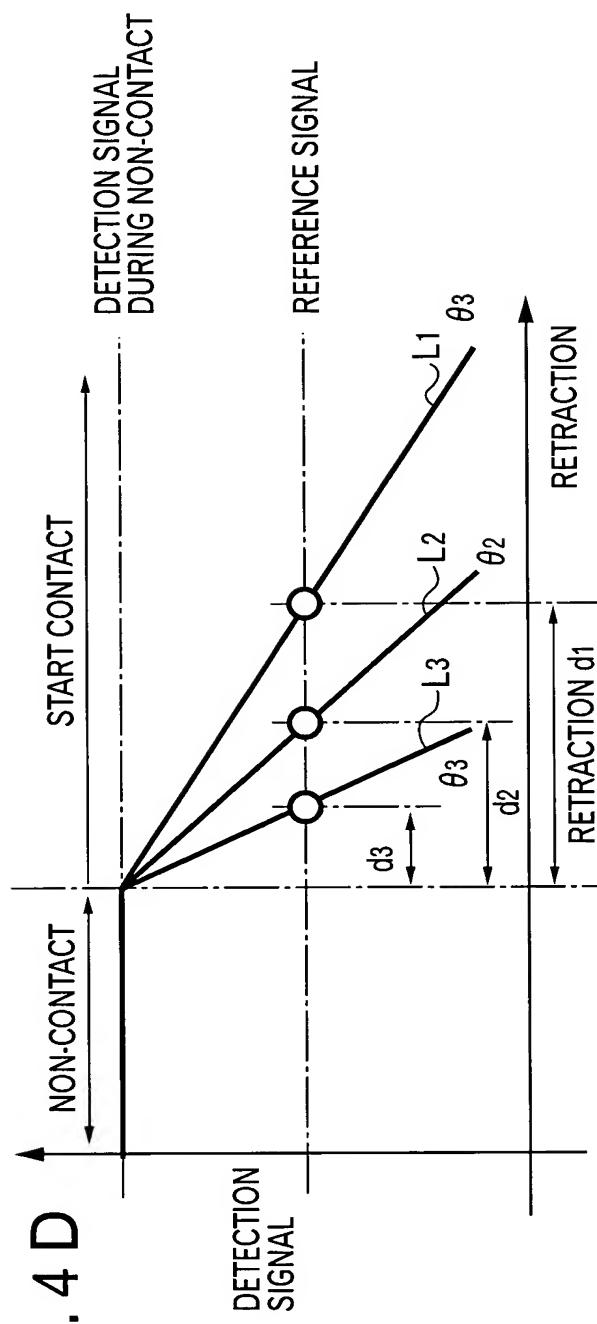


FIG. 4 D



5/19

FIG. 5

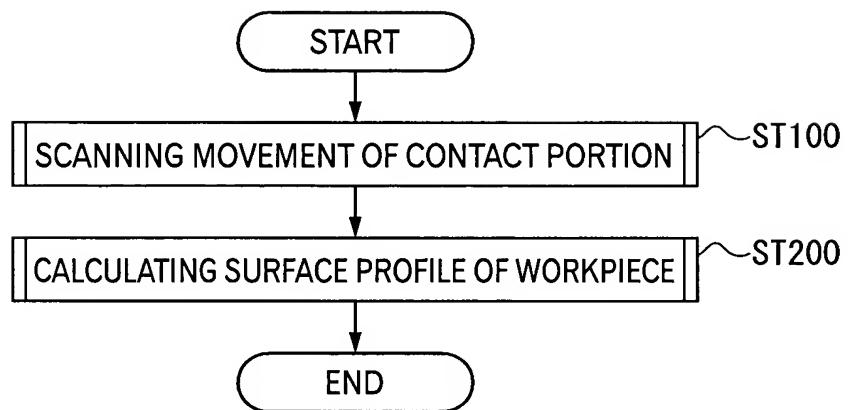
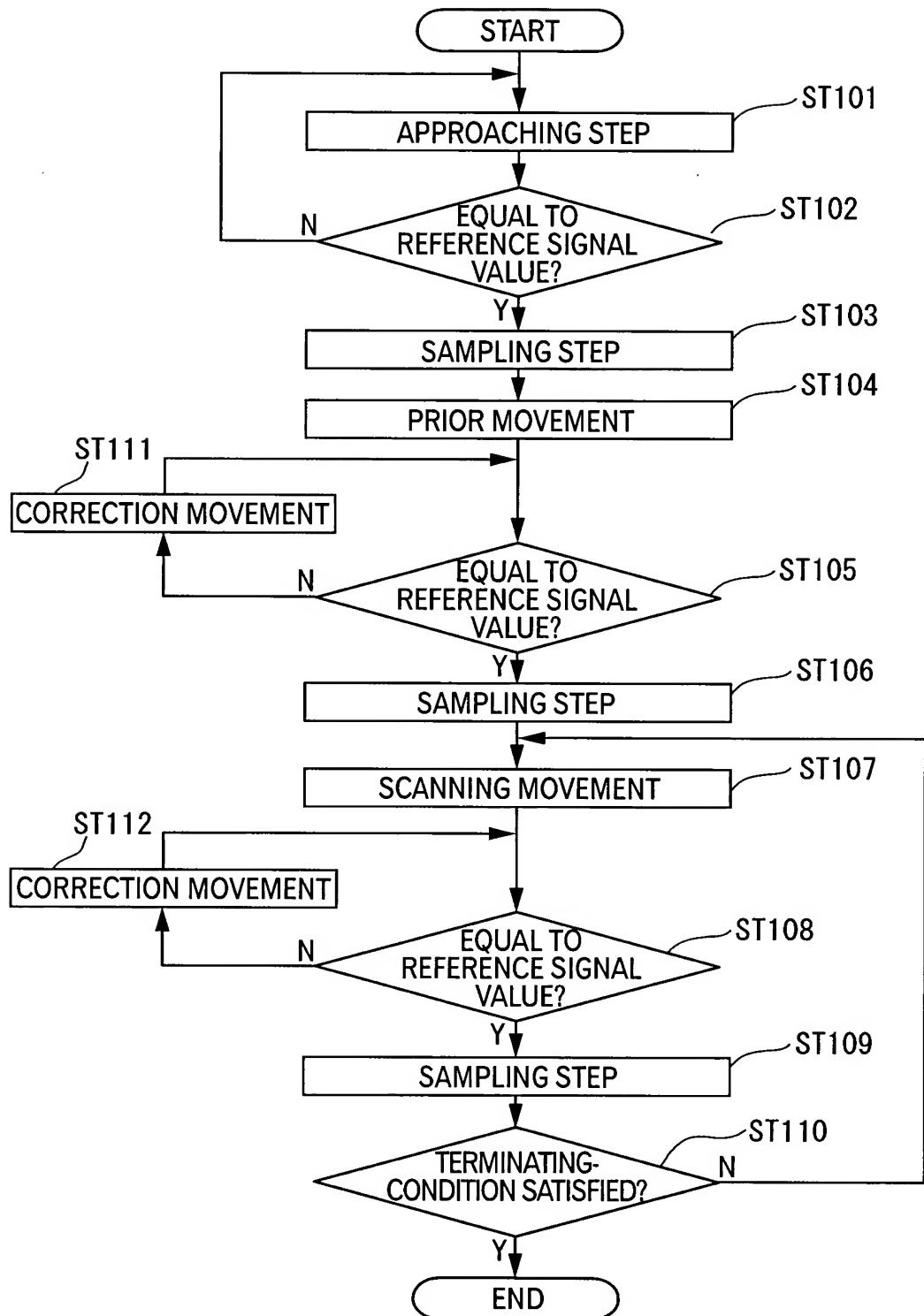


FIG. 6



7/19

FIG. 7

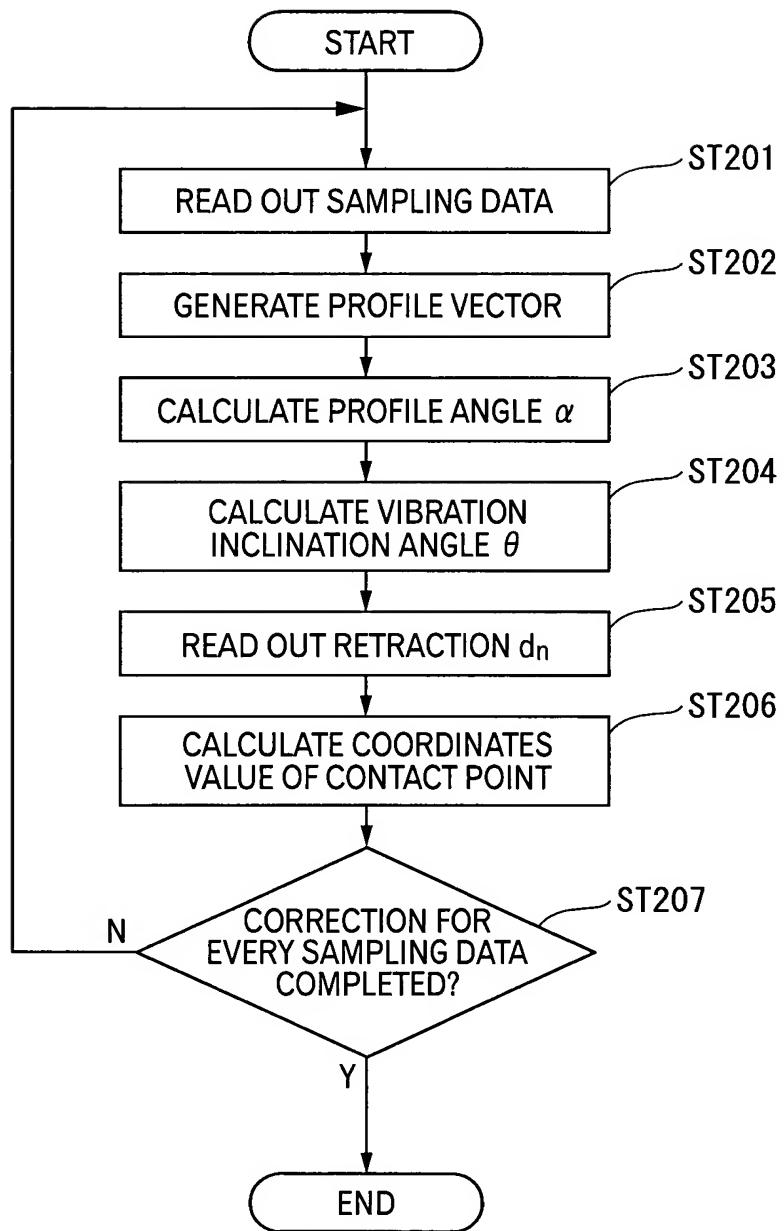


FIG. 8

- → SCANNING VECTOR
- CORRECTION VECTOR
- PROFILE VECTOR

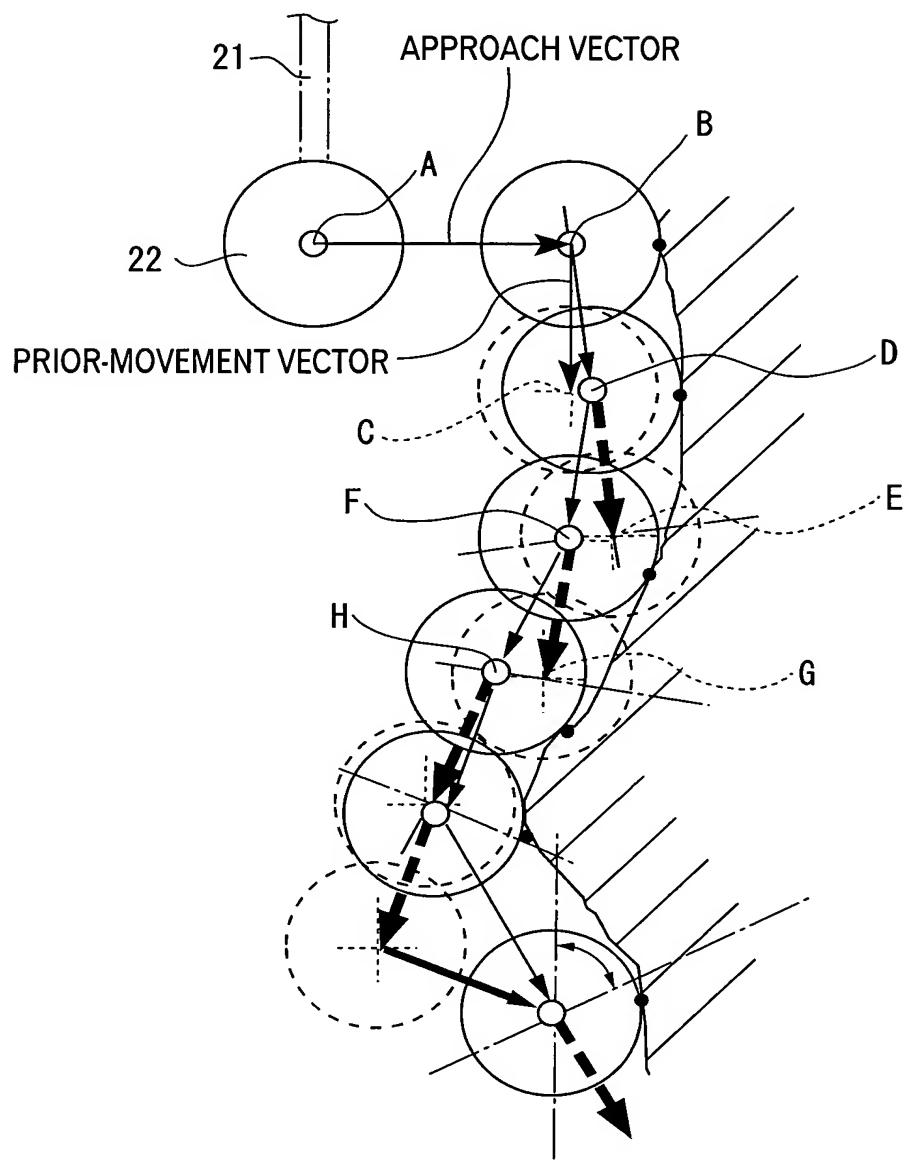


FIG. 9

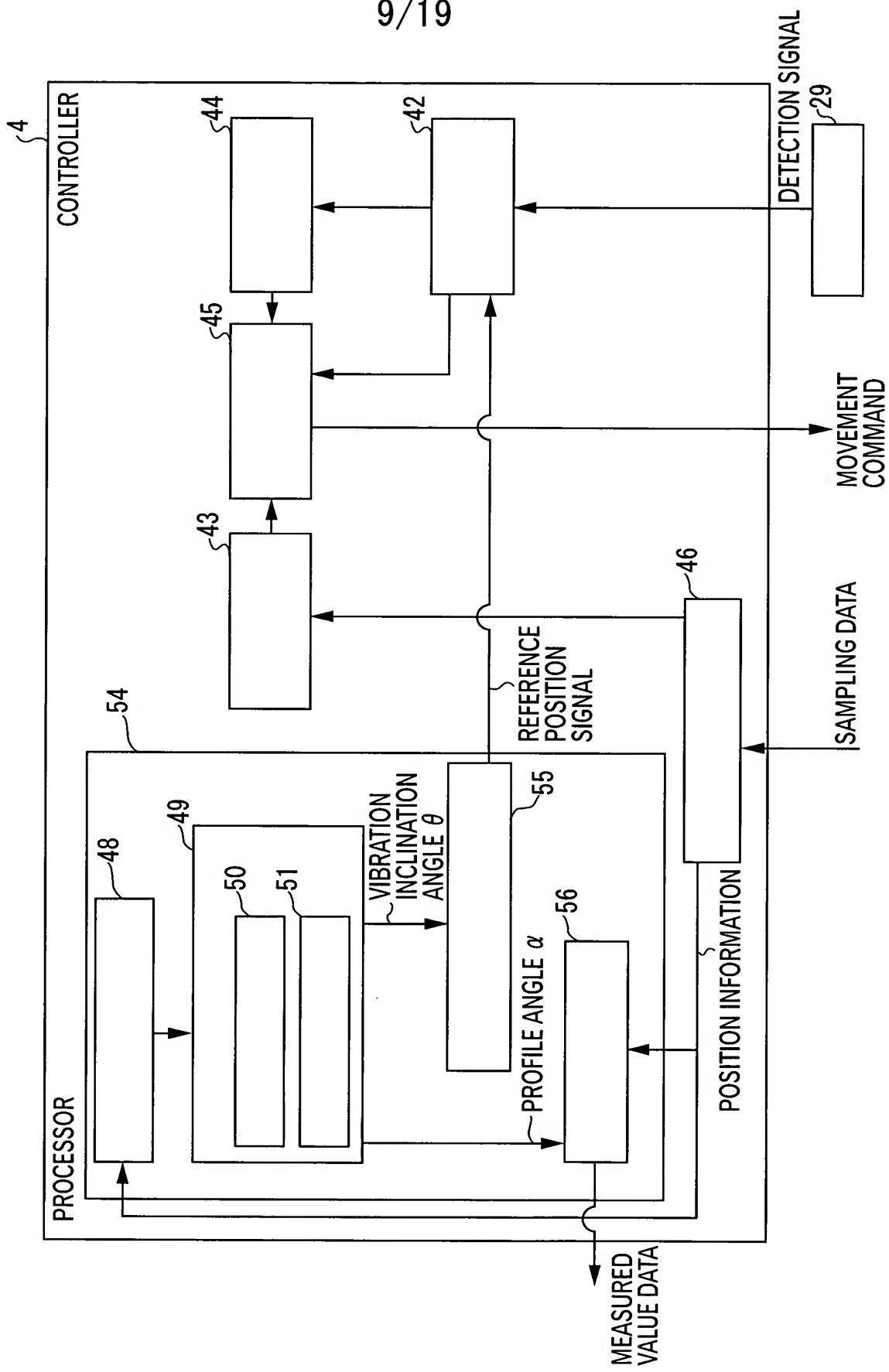
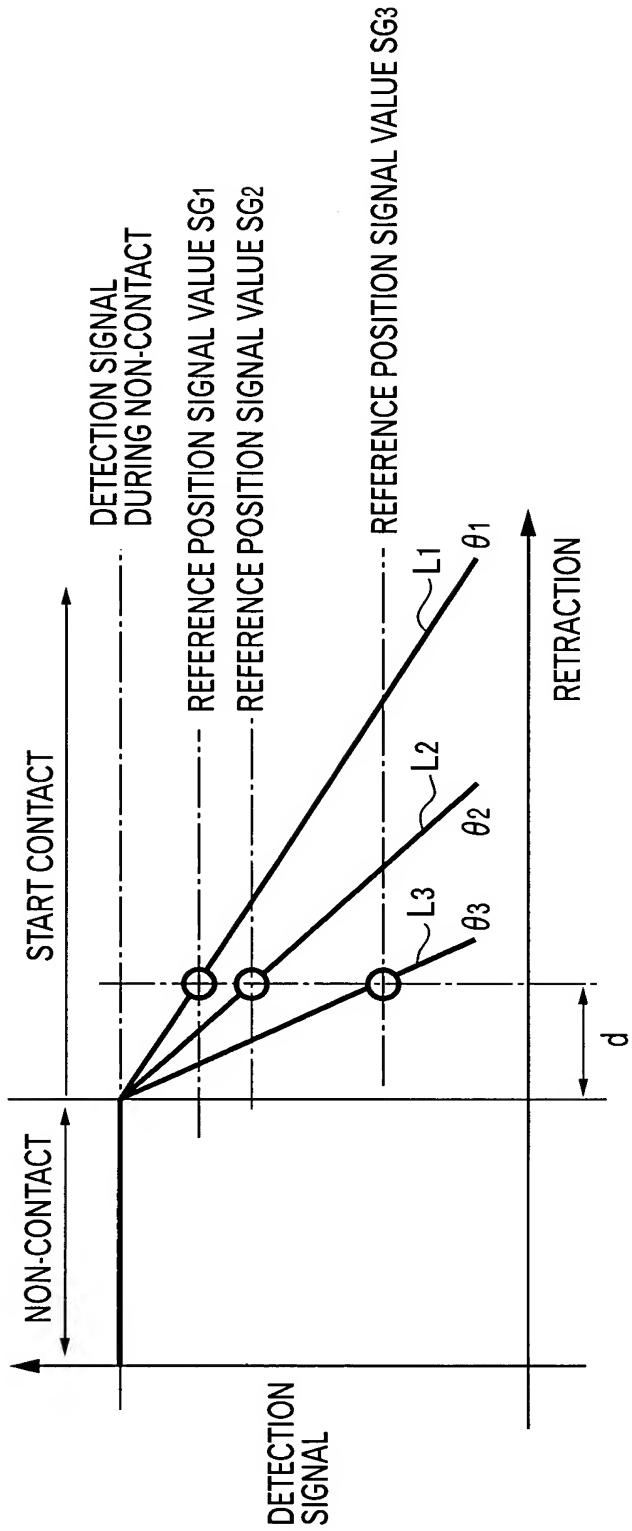
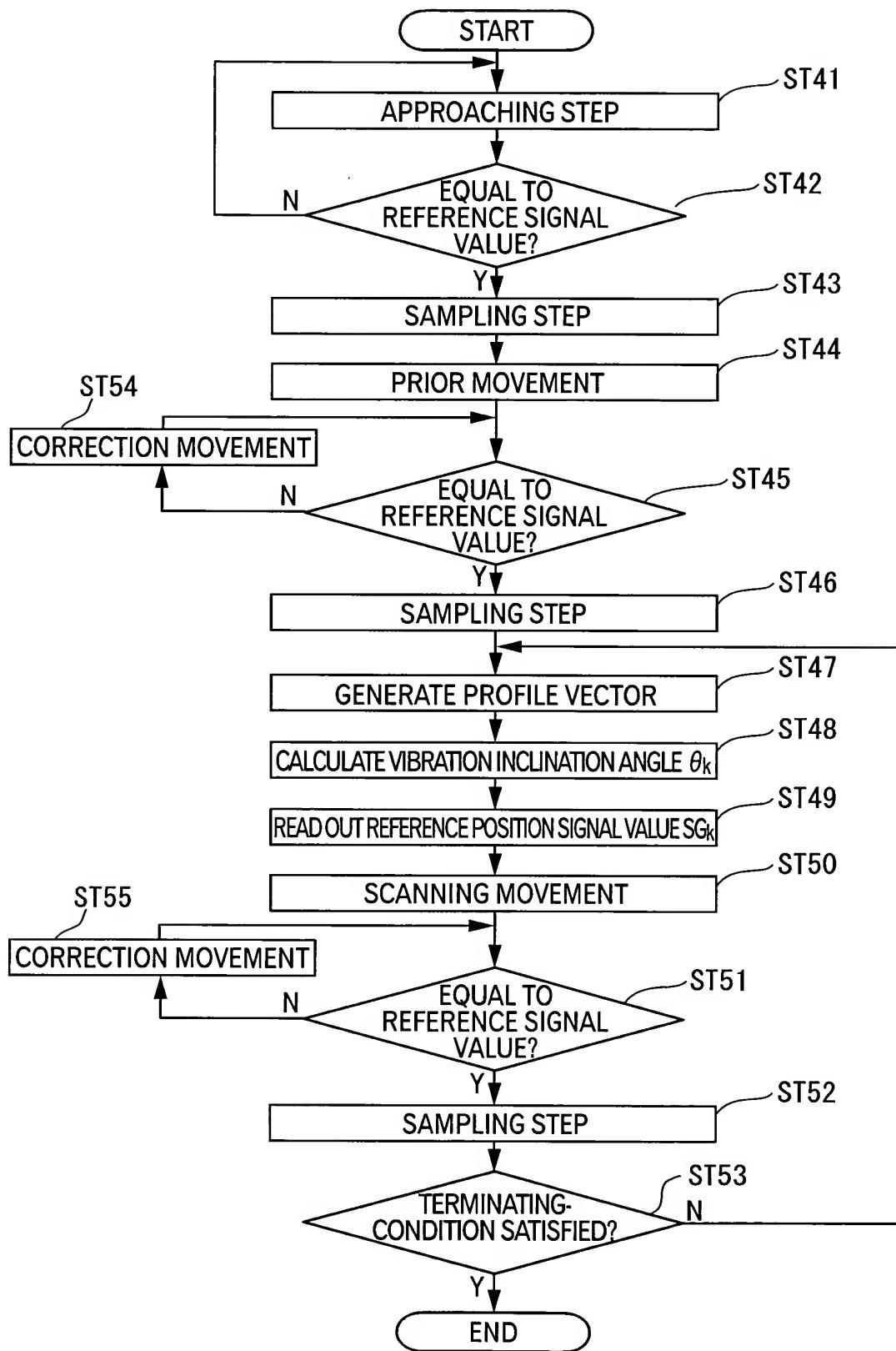


FIG. 10



11/19

FIG. 11



12/19

FIG. 12

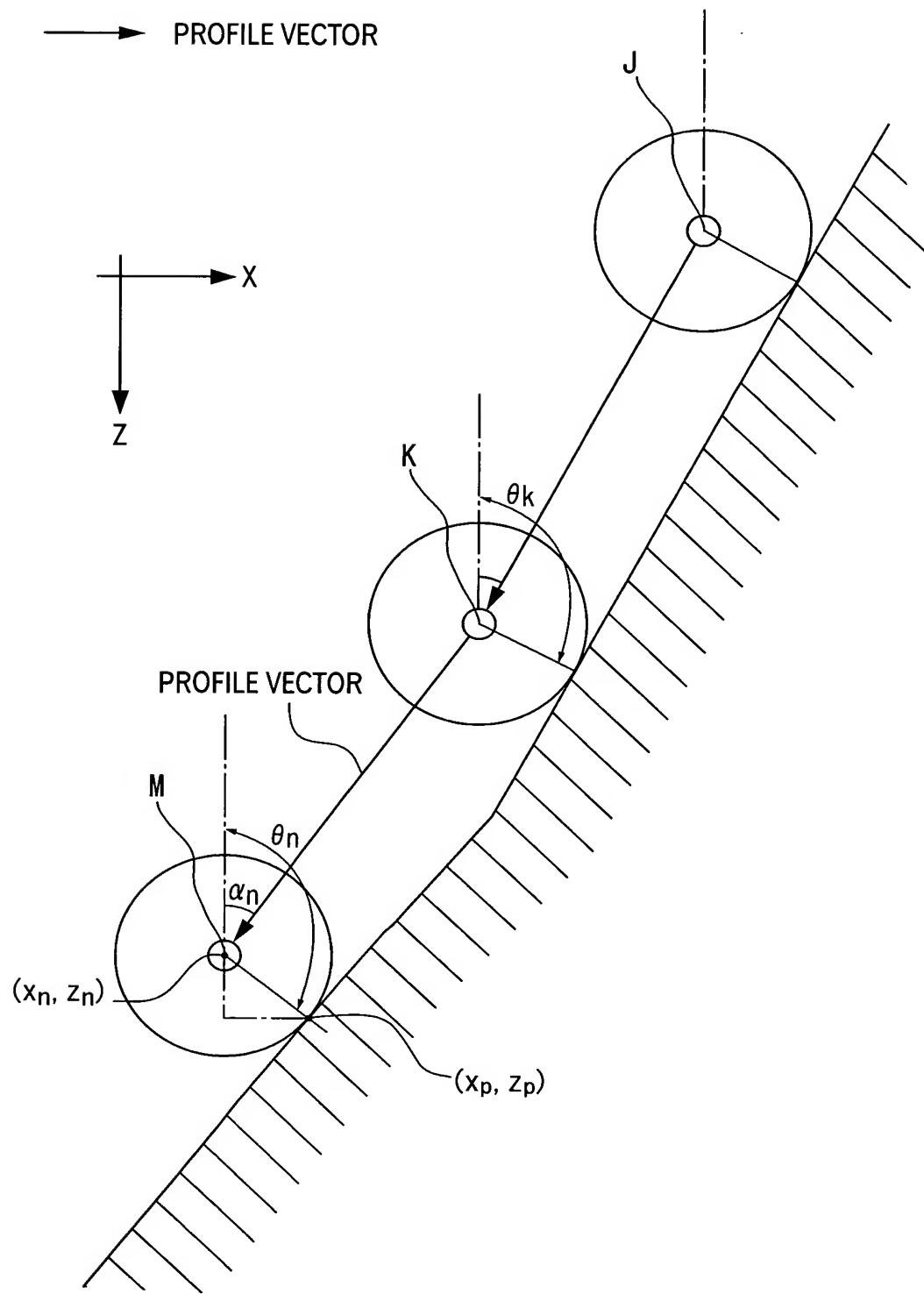


FIG. 13 A

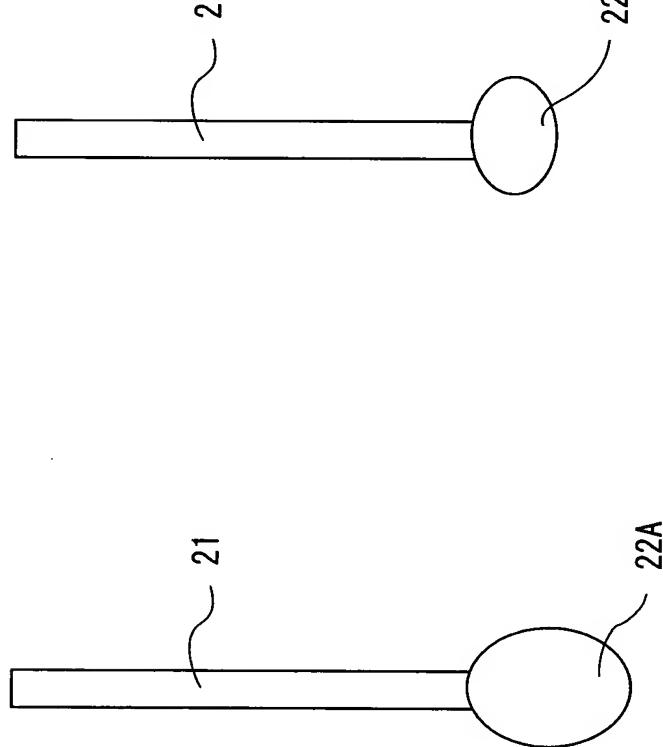


FIG. 13 B

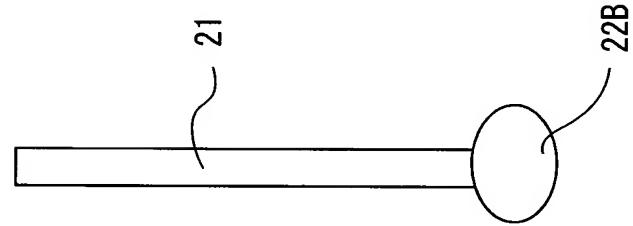
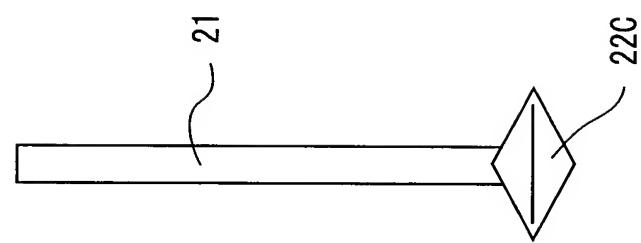


FIG. 13 C



14/19

FIG. 14
PRIOR ART

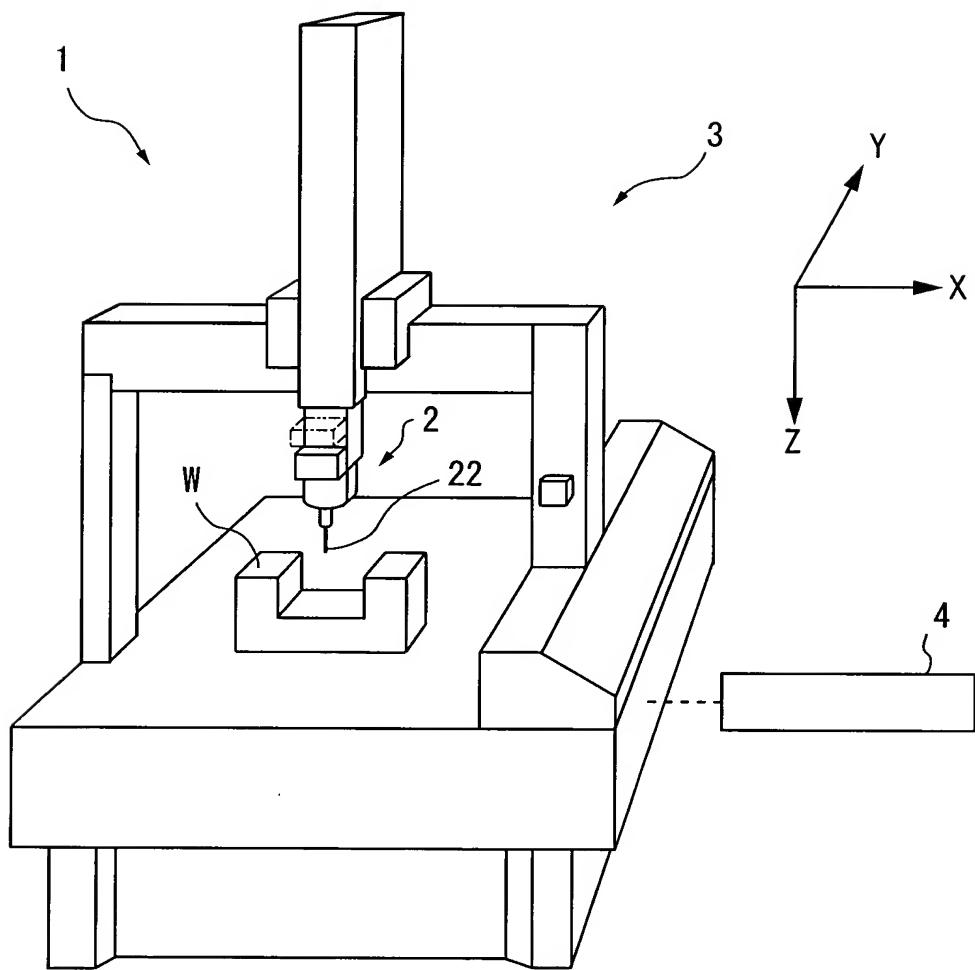


FIG. 15
PRIOR ART

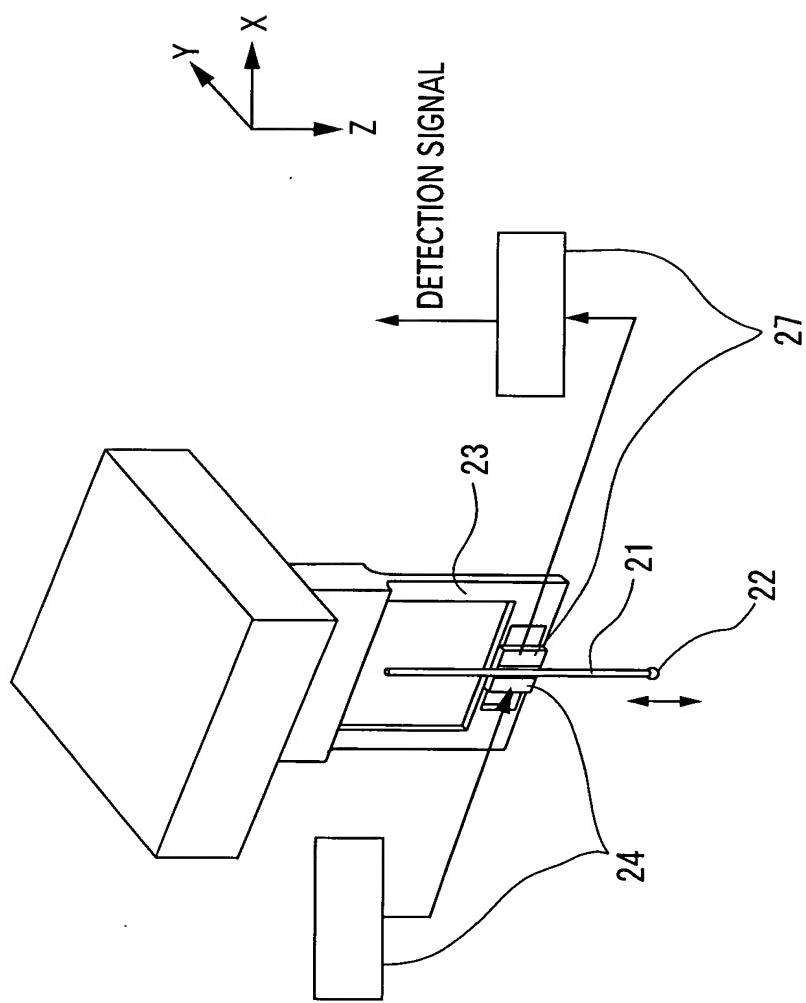


FIG. 16
PRIOR ART

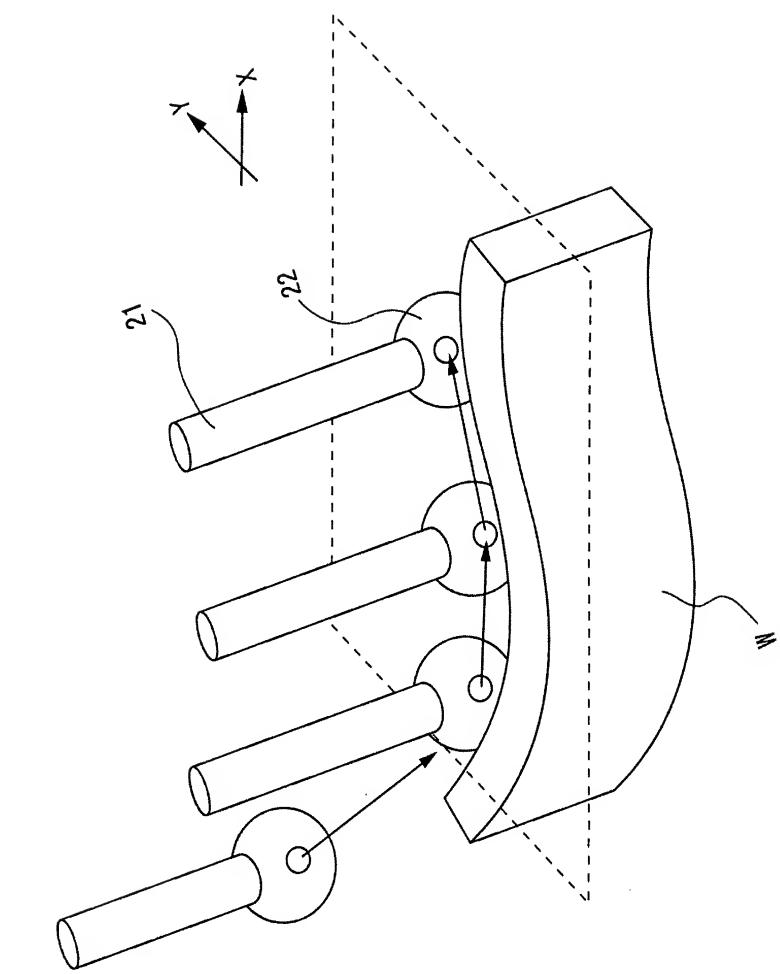


FIG. 17 A

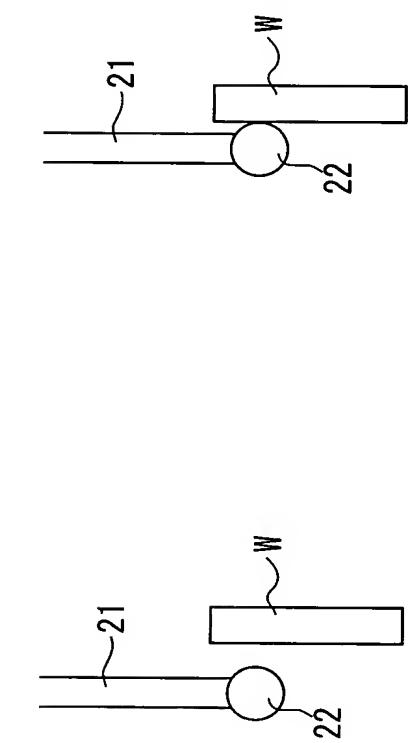


FIG. 17 C

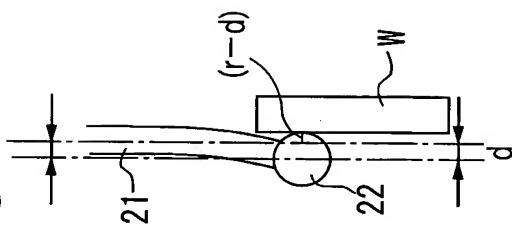
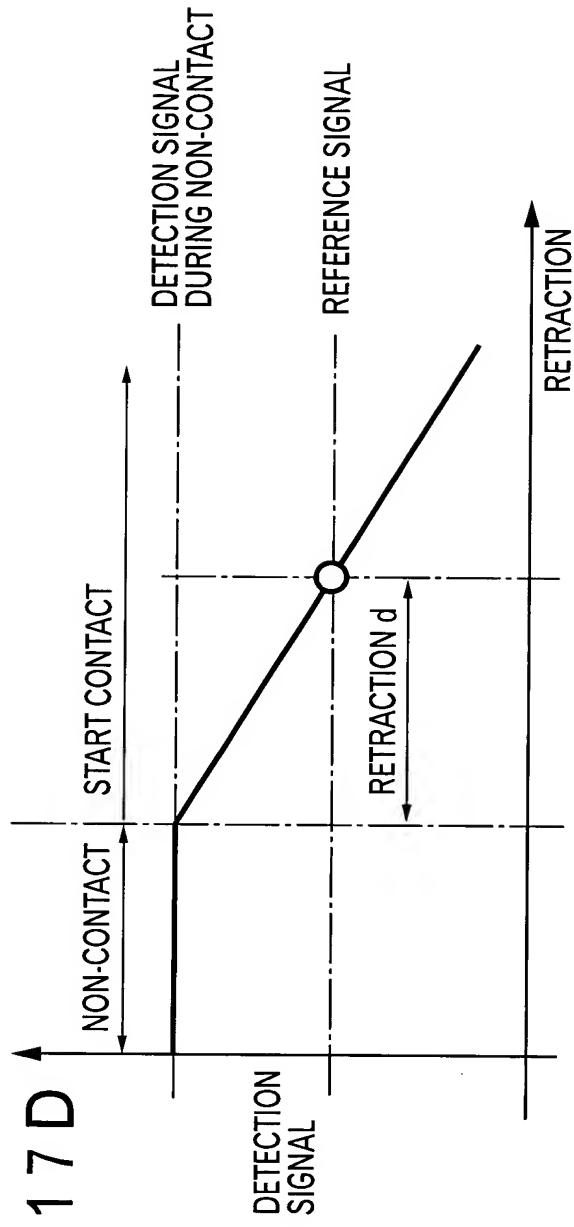


FIG. 17 D



START CONTACT

DETECTION SIGNAL
DURING NON-CONTACT

REFERENCE SIGNAL

RETRACTION

18/19

FIG. 18

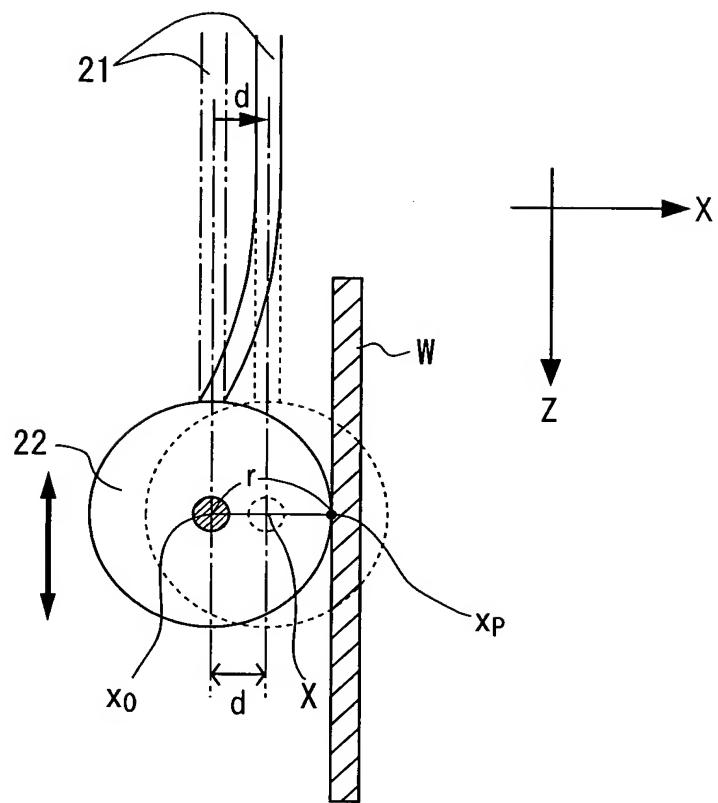


FIG. 19

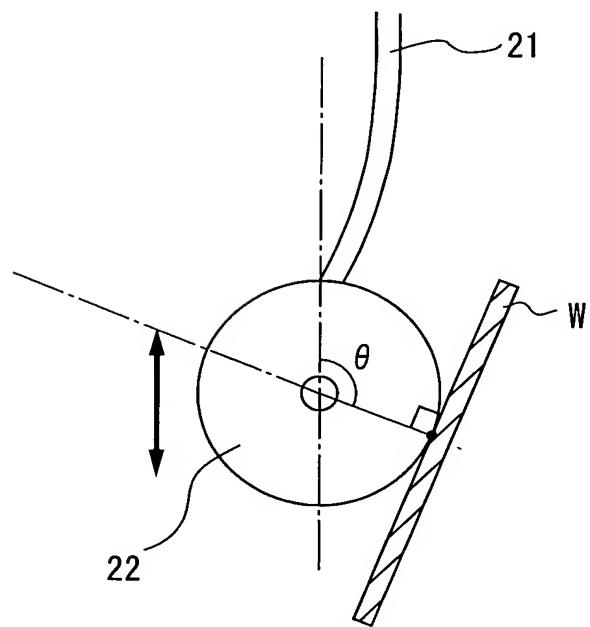


FIG. 20
PRIOR ART

